

Title (en)

IMPROVED ENZYMES FOR THE PRODUCTION OF 2-KETO-L-GULONIC ACID.

Title (de)

VERBESSERTE ENZYME ZUR HERSTELLUNG VON 2-KETO-L-GULONSÄURE.

Title (fr)

ENZYMES AMELIOREES POUR LA PRODUCTION D'ACIDE 2-CETO-L-GULONIQUE.

Publication

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Application

EP 93920493 A 19930907

Priority

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Abstract (en)

[origin: US5583025A] Mutants of 2,5-diketo-D-gluconic acid reductase A, an enzyme used to produce 2-keto-L-gulonic acid, a precursor of ascorbic acid (vitamin C) are prepared by site-directed mutagenesis. These mutants have increased catalytic activity, increased expression levels, and/or enhanced temperature stability.

IPC 1-7

C12N 1/21; **C12N 9/02**; **C12N 15/53**; **C12N 15/70**; **C12N 15/71**; **C12N 15/75**; **C12N 15/74**; **C07H 15/12**

IPC 8 full level

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CPC (source: EP KR US)

C12N 1/20 (2013.01 - KR); **C12N 9/0004** (2013.01 - KR); **C12N 9/0006** (2013.01 - EP US); **C12N 15/52** (2013.01 - KR); **C12N 15/74** (2013.01 - EP US); **C12P 7/60** (2013.01 - EP US)

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- [A] EP 0292303 A1 19881123 - GENENTECH INC [US]
- [A] EP 0132308 A1 19850130 - GENENTECH INC [US]
- [A] WO 8700863 A1 19870212 - BIOGEN NV [NL]

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